



Guilan University of medical science
Dentistry School

Title: Degree of awareness of the Rasht general dentists about LASER applications

Guiding Professor: Dr. Abolfazl Bagheri

Author: Rasol Aghjani

Abstract

Introduction: One of the common applications of LASER is sterilization of tooth canal for root therapy which is the main problem in this field.

In repair works we can use LASER for selective removing of caries. Tooth bleaching by using LASER is widely used cases of LASER therefore the main aim of this survey is to inform dentists about LASER real application not only being familiar with its name (without knowing the usage of this method for other usages).

LASER often used safely in surgical treatment especially in patients with systemic problems (includes: High risk for infection, bleeding, etc.)

One of the important usage of LASER have important role in curing oral cancers with using a sensitizer drug that combined with tissue O₂ (after light radiation) and released free radicals led to destroying of cancer cells without damage to healthy tissues. Low-power LASERs are used to treatment of oral white lesions, facial pain and controlling of pain and swelling after soft tissue surgery.

Aim: In this survey we want to asses the knowledge of Rasht general dentists about LASER applications according to their age, sex and date of graduation.

Results: Among 140 dentists, 126 persons (90%) pointed that only have heard something about LASER and 14 persons (10%) claimed that even heard something about that.

44 persons stated that have studies about LASER and 96 persons (68/6%) didn't have any studies about this issue. In addition nobody didn't have any practical and clinical usage of this method. Among the 140 persons, 119 people had willing to participate in training courses. Also 21 persons (15%) didn't interest to participatating in such courses.

Conclusion: The study results indicate very low awareness of dentists about LASER and this is necessary to inform dentists in different methods about LASER applications.

Key words: awareness, general dentists, LASER